

New National Phase Entry
Serial No.: New (PCT/JP2004/014195)
Filed: Herewith

AMENDMENTS TO THE TITLE:

Please replace the title with the following rewritten version:

METHOD [[OF]] FOR MANUFACTURING ROTATING BODY A ROTARY MEMBER OF A TORQUE CONVERTER AND ROTATING BODY A ROTARY MEMBER OF A TORQUE CONVERTER MANUFACTURED BY THE MANUFACTURING METHOD

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AMENDMENTS TO THE SPECIFICATION:

Please replace the last paragraph beginning on page 1, line 20 with the following rewritten version:

Torque converters having a lock-up device to prevent the loss of energy due to fluid slip has been proposed in the conventional technology (~~refer to Patent Document 1 as shown in Unexamined Patent Publication H5-71612, for example~~). The lock-up device typically is disposed between the turbine shell and the front cover, and includes a piston (drive plate), a driven plate, and torsion springs. The piston is disposed near to the front cover, and is pressed against the front cover to rotate integrally when the device is actuated. The driven plate is an annular plate member for transmitting the driving force of the piston to the turbine shell. The torsion springs elastically connect the piston with the driven plate in the rotational direction.

Please section entitled [Patent Document 1] beginning on page 3, line 1 as follows:

~~[Patent Document 1]~~

~~Unexamined Patent Publication H5-71612~~

Please replace the last paragraph beginning on page 3, line 19 with the following rewritten version:

According to a method for manufacturing a rotary member of a torque converter of ~~claim 1 a first aspect of the present invention~~, the rotary member includes a turbine shell of the torque converter, a plurality of blades fixed to an inner face of the turbine shell, and a

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driven plate of a lock-up device fixed to an outer face of the turbine shell. The method includes a first step, a second step, and a third step. In the first step, the driven plate is fixed to the turbine shell. In the second step, the turbine shell and the blades are heated so as to fix the blades to the turbine shell by brazing. In the third step, the rotary member is rapidly cooled after the second step.

Please replace the first paragraph beginning on page 4, line 6 with the following rewritten version:

~~According to a A~~ method for manufacturing a rotary member of a torque converter of claim 2 depending on claim 1 according to a second aspect of the present invention is the method of the first aspect, wherein in the third step the rotary member is rapidly cooled immediately after the rotary member is cooled down to a certain temperature in the second step.

Please replace the second paragraph beginning on page 4, line 9 with the following rewritten version:

~~According to a A~~ method for manufacturing a rotary member of a torque converter of claim 3 depending on claim 1 or 2 according to a third aspect of the present invention is the method of the first or second aspect, wherein in the second step the brazing is performed by heating such that a temperature of the rotary member reaches at least a melting point of the brazing material used for brazing, preferably up to 1100 degrees Celsius. In the third step, the rotary member is rapidly cooled when the temperature of the rotary member reaches at

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least an appropriate hardening temperature of the driven plate, preferably down to 850 degrees Celsius in the second step.

Please replace the third paragraph beginning on page 4, line 15 with the following rewritten version:

~~According to a A~~ method for manufacturing a rotary member of a torque converter of claim 4 depending on claim 3 according to a fourth aspect of the present invention is the method of the third aspect, wherein in the third step, the rotary member is cooled down to the appropriate hardening temperature or a mechanical melting temperature (TM temperature) while keeping the temperature distribution of the rotary member within 40 to 100 degrees Celsius in order to reduce distortion.

Please replace the last paragraph beginning on page 4, line 20 with the following rewritten version:

~~According to a A~~ method for manufacturing a rotary member of a torque converter of claim 5 depending on any of claims 1 to 4 according to a fifth aspect of the present invention is the method of any one of the first to fourth aspects, wherein the turbine shell and the blades are made of ultra low-carbon steel.

Please replace the first paragraph beginning on page 5, line 3 with the following rewritten version:

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~~According to a A rotary member of a torque converter of claim 6 according to a sixth aspect of the present invention is manufactured by the method according to any of claims 1 to 5 one of the first to fifth aspects.~~

Please insert the following paragraph after the third paragraph and the section entitled [Explanations of letters or numerals] on page 5, between lines 9 and 10 as follows:

Figure 3 is view of a table showing the results of comparative measurements.

Please delete the section entitled [Explanations of letters or numerals] beginning on page 5, line 10 as follows:

[Explanations of letters or numerals]

~~4 torque converter~~

~~7 lock-up device~~

~~10 rotary member~~

~~11 turbine shell~~

~~11a inner face~~

~~11b outer face~~

~~13 turbine blades~~

~~25 driven plate~~